

TO: Terry Dey COMPANY:

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Appl. Serial No. 09/715,290

Atty Dckt No. PLST-03071US (Formerly Docket No. 5831.58/P/CIP/Re/C)

AMENDMENT

PENDING CLAIMS (As Amended)

1. (Original) Apparatus for mounting a ball grid array device comprising:

(a) a support member having a support face with a plurality of windows therein arranged in a pattern to correspond with and receive terminal balls depending from one face of a ball grid array device when said ball grid array device is positioned on the support face of said support member;

(b) a base member;

(c) a bending plate having apertures therein substantially corresponding with said windows positioned between said base member and said support member and adapted for lateral movement with respect to said support member;

d) a plurality of elongated contact members anchored in said base member, each having an interconnection end and a free end portion disposed on opposite sides of a central section with said central section projecting through an aperture in said bending plate and said free end portion positioned in a window in said support member; and

(e) a cam adapted to move the position of said bending plate laterally with respect to said support member and thereby urge said free end portions into contact with said terminal balls between the centerline thereof and the face from which they depend.

2. (Original) Apparatus as defined in claim 1 wherein said free end portion of each of said contact members has a generally central axis and the extreme end of said end portion is deviated from said generally central axis.

3. (Original) Apparatus as defined in claim 2 wherein each said extreme end portion extends into a window in the support member but does not extend through said window.

4. (Original) Apparatus as defined in claim 1 wherein said cam contacts and moves

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said bending plate.

[5. (Cancelled) Apparatus as defined in claim 1 wherein said cam contacts and moves said support member.]

6. (Original) Apparatus as defined in claim 4 further comprising spring means to urge said bending plate laterally with respect to said support member.

7. (Amended) Apparatus as defined in claim [5] 1 further comprising spring means to said support member laterally with respect to said bending plate.

8. (Previously Amended) Apparatus as defined in claim 2 wherein the extreme end of said free end portion of each of said contact members extends into a window in said support member a sufficient distance to contact a [ball] terminal ball positioned in said window between the center of the [ball] terminal ball and the face of the device from which such [ball] terminal ball depends.

9. (Previously Amended) Apparatus as defined in claim 1 further comprising spacers [removeably] removably affixed adjacent said support face to at least partially define the periphery of a ball grid array device to be positioned on said support face.

10. (Previously Amended) Apparatus for mounting a ball grid array device comprising:

(a) a support member having a support face with a plurality of windows therein arranged in a pattern to correspond with and receive [ball terminals] terminal balls depending from the face of a ball grid array device when said ball grid array device is positioned on the support face of said support member;

(b) a base member;

(c) biasing means having apertures therein substantially corresponding with said windows positioned between said base member and said support member;

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10 (d) a plurality of elongated contact members anchored in said base
member, each having an interconnection end and a free end portion disposed on
opposite sides of a central section with said central section projecting through an
aperture in said biasing means and said free end portion defining a generally central
axis with the extreme end portion of said free end portion deviated from said central
15 axis and positioned in a window in said support member; and

(c) [(c)] means for moving said free end portions with respect to said
window.

11. (Original) The apparatus as defined in claim 10 wherein each said extreme end
portion extends into a window in the support but does not extend through said
window.

12. (Previously Amended) Apparatus as defined in claim 10 further comprising
spacers [removably] removably affixed adjacent said support face to at least
partially define the periphery of ball grid array devices to be positioned on said
support face.

13. (Previously Amended) The combination comprising:

(a) a ball grid array device having a first face and a plurality of terminal
balls depending from said first face in a predetermined pattern, each of said [ball
terminals] terminal balls defining a geometric center spaced from said first face; and

5 (b) mounting apparatus comprising:
(i) a support member having a support face with a plurality of
windows therein arranged in a pattern to correspond with and
receiving said terminal balls depending from said first face of
said ball array device;
10 (ii) a base member;
(iii) a bending plate having apertures therein substantially
corresponding with said windows positioned between said

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- base member and said support member; and
- (iv) a plurality of elongated contact members, each having an interconnection end and a free end portion disposed on opposite sides of a central section with said central section projecting through an aperture in said bending plate and said free end portion positioned in one of said windows in said support member and terminating between said first face of said ball grid array and the geometric center of a terminal ball.

14. (Original) The combination defined in claim 13 wherein said free end portion of each of said contact members has a generally central axis and the extreme end of said end portion is deviated from said generally central axis.

15. (Original) The combination defined in claim 14 wherein each said extreme end portion extends into a window in the support member but does not extend through said window.

16. (Original) The combination defined in claim 13 including means for moving said free end portions with respect to said windows.

17. (Original) The combination defined in claim 16 wherein said means for moving comprises a rotatable cam adjacent said bending plate which, when rotated, coacts with said bending plate to move said plate laterally with respect to said support member.

18. (Original) The combination defined in claim 17 wherein said means for moving includes a spring positioned to urge said bending plate laterally with respect to said support member.

19. (Original) The combination defined in claim 16 wherein said means for moving

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comprises a rotatable cam adjacent said support member which, when rotated, coacts with said support member to move said support member laterally with respect to said bending plate.

20. (Original) The combination defined in claim 19 wherein said means for moving includes a spring positioned to urge said support means laterally with respect to said bending plate.

21. (Previously Amended) Apparatus for mounting a ball grid array device comprising:

(a) a support member having a support face with a plurality of windows therein arranged in a pattern to correspond with and receive terminal balls depending from one face of a ball grid array device when said ball grid array device is positioned on the support face of said support member;

(b) a base member;

(c) a bending plate having apertures therein substantially corresponding with said windows positioned between said base member and said support member and adapted for lateral movement with respect to said support member;

(d) a plurality of elongated contact [member] members anchored in said base member, each having an interconnection end and a free end portion disposed on opposite sides of a central section with said central section projecting through an aperture in said bending plate and said free end portion positioned in a window in said support member; and

(e) [(c)] a cam adapted to move the position of said bending plate laterally with respect to said support member and thereby move said free end portions within said windows.

22. (Previously Amended) Apparatus for mounting a ball grid array device comprising:

(a) support member having a support face with a plurality of windows

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therein arranged in a pattern to correspond with and receive [ball terminals] terminal

5 balls depending from the face of a ball grid array device when said ball grid array device is positioned on the support face of said support member;

(b) a base member;

(c) biasing means having apertures therein substantially corresponding with said windows positioned between said base member and said support member and adapted for lateral movement with respect to said support member;

10 (d) a plurality of elongated contact members anchored in said base member, each having an interconnection end and a free end portion disposed on opposite sides of a central section with said central section projecting through an aperture in said biasing means and said free end portion having an extreme end portion thereon positioned in a window in said support member; and

15 (e) [(c)] means for moving said free end portions with respect to said window.

23. (Previously Amended) Apparatus for mounting a ball grid array device, the ball grid array device having terminal balls depending from the ball grid array device, and the apparatus comprising:

5 (a) a support member having a support face, wherein the ball grid array device is positioned on said support face of said support member;

(b) a base member;

(c) a bending plate having apertures therein substantially corresponding with the terminal balls, said bending plate positioned between said base member and said support face of said support member and adapted for lateral movement with respect to said support member;

10 (d) a plurality of elongated contact members anchored in said base member, each having an interconnection end and a free end portion disposed on opposite sides of a central section with said central section projecting through an aperture in said bending plate, and said free end portion positioned to extend
15 adjacent to a respective one of the terminal balls of the ball grid array device; and